

FIG. 1

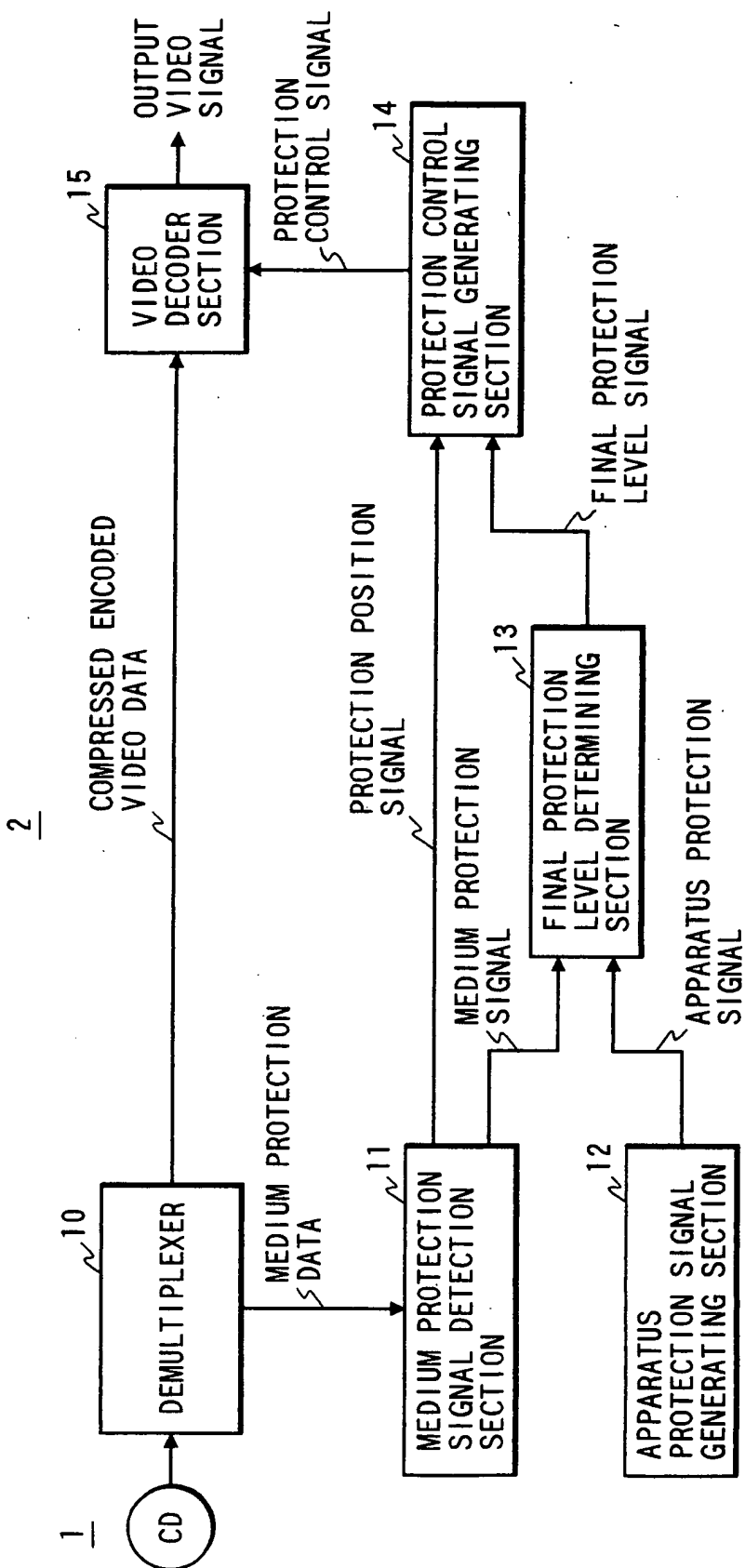


FIG. 2

REPRODUCTION APPARATUS
PROTECTION LEVEL → STRONG

MEDIUM PROTECTION
LEVEL ↓ STRONG

| | 1 | 2 | 3 | 4 |
|---|---|------------|---|---|
| 1 | A | A | A | A |
| 2 | A | A | A | B |
| 3 | A | A | B | C |
| 4 | A | B ~~~~~ | C | D |
| 5 | E | E | E | E |

FIG. 3

MEDIUM PROTECTION LEVEL →

| EXAMPLES OF MEDIUM PROTECTION | 1 | 2 | 3 | 4 | 5 |
|-------------------------------------|------|----------------------|--------------------------|------------------------|-------|
| BASED ON U.S. MOVIE RATINGS | FREE | PG | R | X | OTHER |
| BASED ON COPYRIGHT PROTECTION | FREE | RESTRICTED (WEAK) | RESTRICTED (MODERATE) | RESTRICTED (STRONG) | OTHER |

FIG. 4

APPARATUS PROTECTION LEVEL →

| EXAMPLES OF PLAYBACK APPARATUS PROTECTION | 1 | 2 | 3 | 4 |
|--|-------------------------|-------------------------|---|---|
| BASED ON COUNTRY | U. S. A. | EUROPE | JAPAN | TAIWAN |
| BASED ON ADULT/CHILD STATUS | FOR ADULTS | FOR ADULTS | FOR ADULTS | FOR CHILDREN |
| BASED ON OBJECTIVES | FOR ITEMS TO BE SOLD | FOR ITEMS TO BE SOLD | FOR IN-STORE SALES DEMONSTRATION ITEMS | FOR IN-STORE SALES DEMONSTRATION ITEMS |

FIG. 5

3

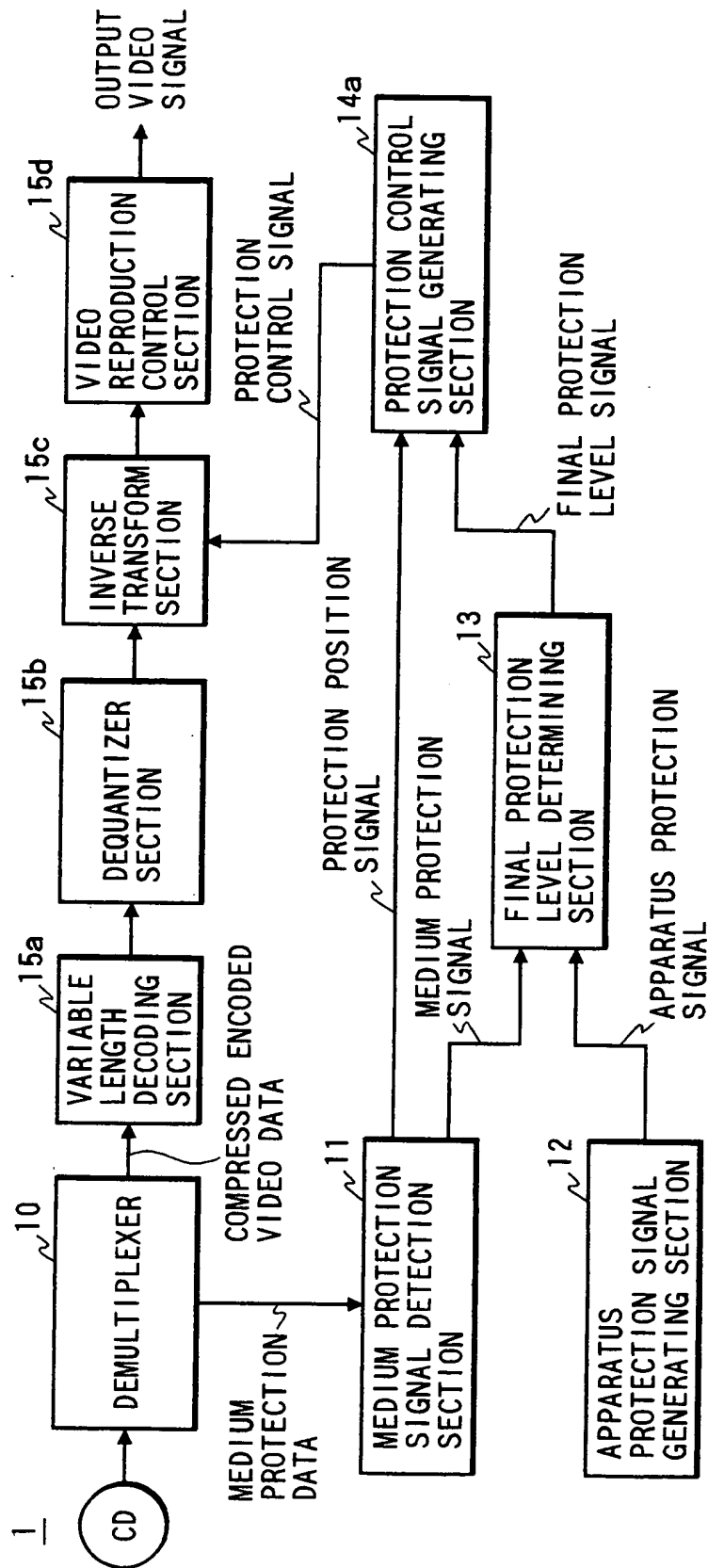


FIG. 6

| | EXAMPLE OF VISIBILITY GRADES, USING SPATIAL-DOMAIN PROTECTION CONTROL | EXAMPLE OF VISIBILITY GRADES, USING TIME-AXIS PROTECTION CONTROL | EXAMPLE OF VISIBILITY GRADES, USING PROTECTION BASED ON VIDEO DATA BIT-NUMBER CONTROL |
|---|---|--|---|
| A | ALL PICTURE IS VISIBLE | ALL PICTURE IS VISIBLE | ALL PICTURE IS VISIBLE |
| B | 8×8 TRANSFORM BLOCK SIZE, DC COEFFICIENT AND 2 AC COEFFICIENTS | 1 IN 15 FRAMES USED | 4 BITS/SAMPLE |
| C | 8×8 TRANSFORM BLOCK SIZE, ONLY DC COEFFICIENT | 1 IN 60 FRAMES USED | 2 BITS/SAMPLE |
| D | 16×16 TRANSFORM BLOCK SIZE, ONLY DC COEFFICIENT | SPECIFIED FRAME(S) ONLY USED | 1 BIT/SAMPLE |
| E | OTHER PICTURE DISPLAYED | OTHER PICTURE DISPLAYED | OTHER PICTURE DISPLAYED |

→
FINAL PROTECTION LEVEL

FIG. 7

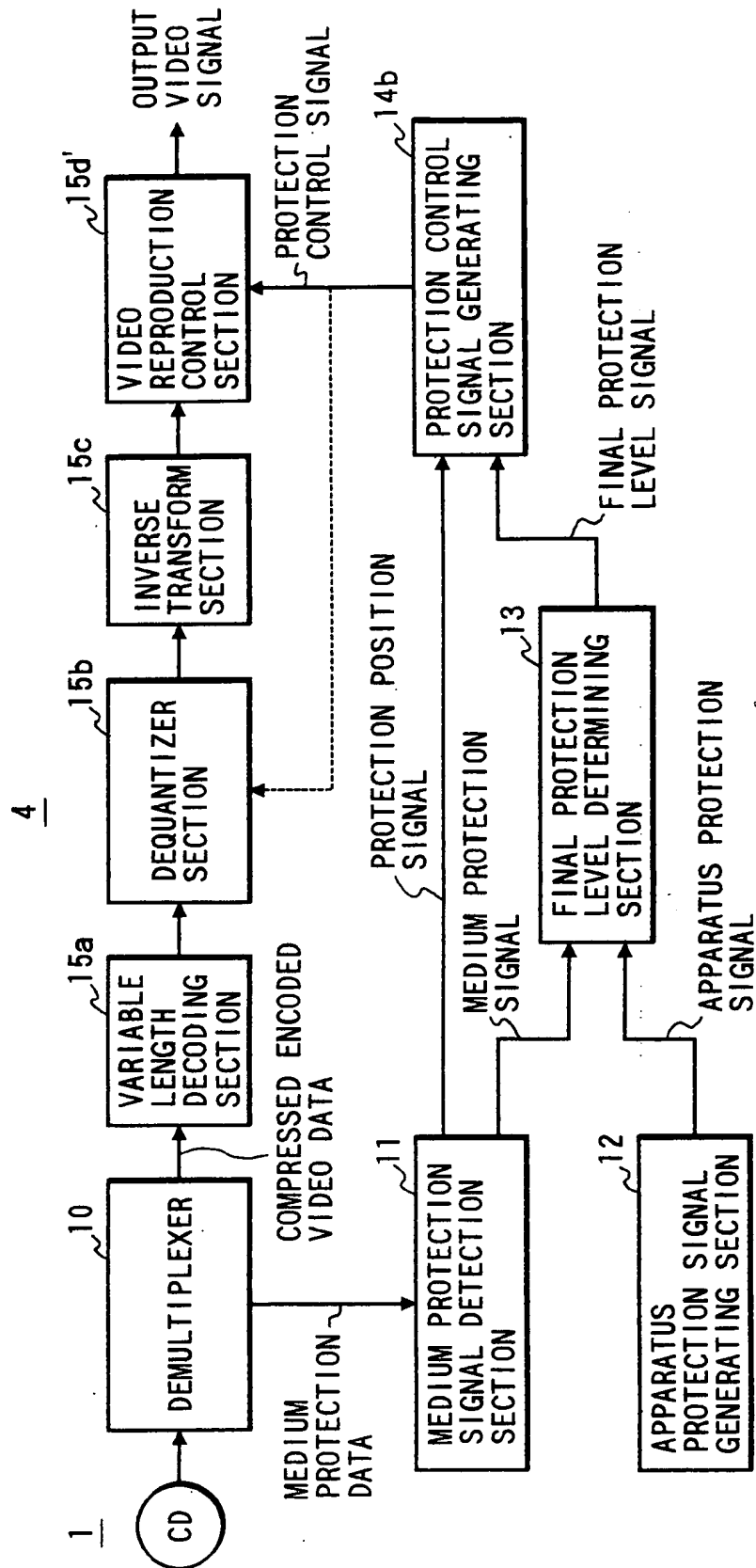


FIG. 8

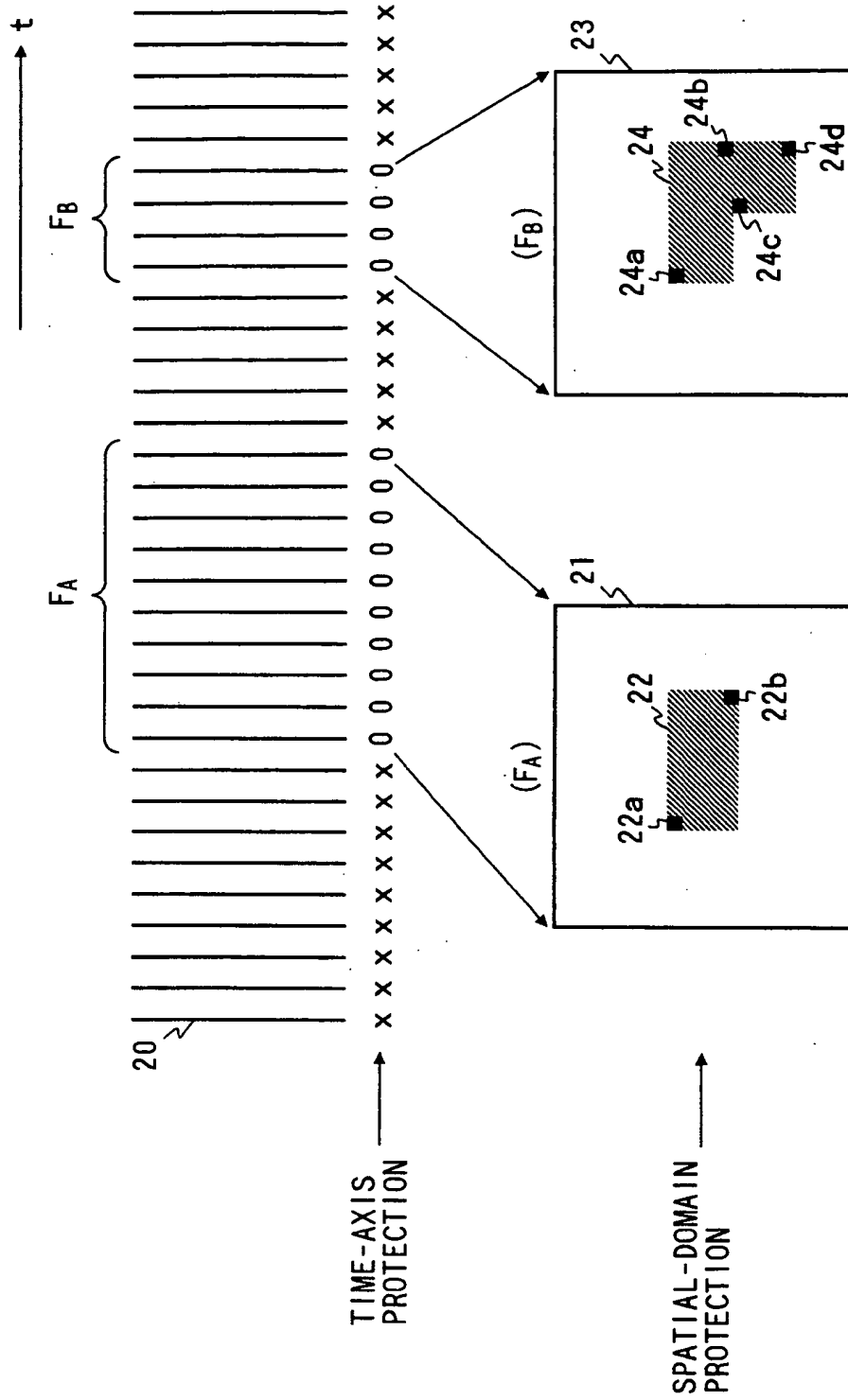


FIG. 9

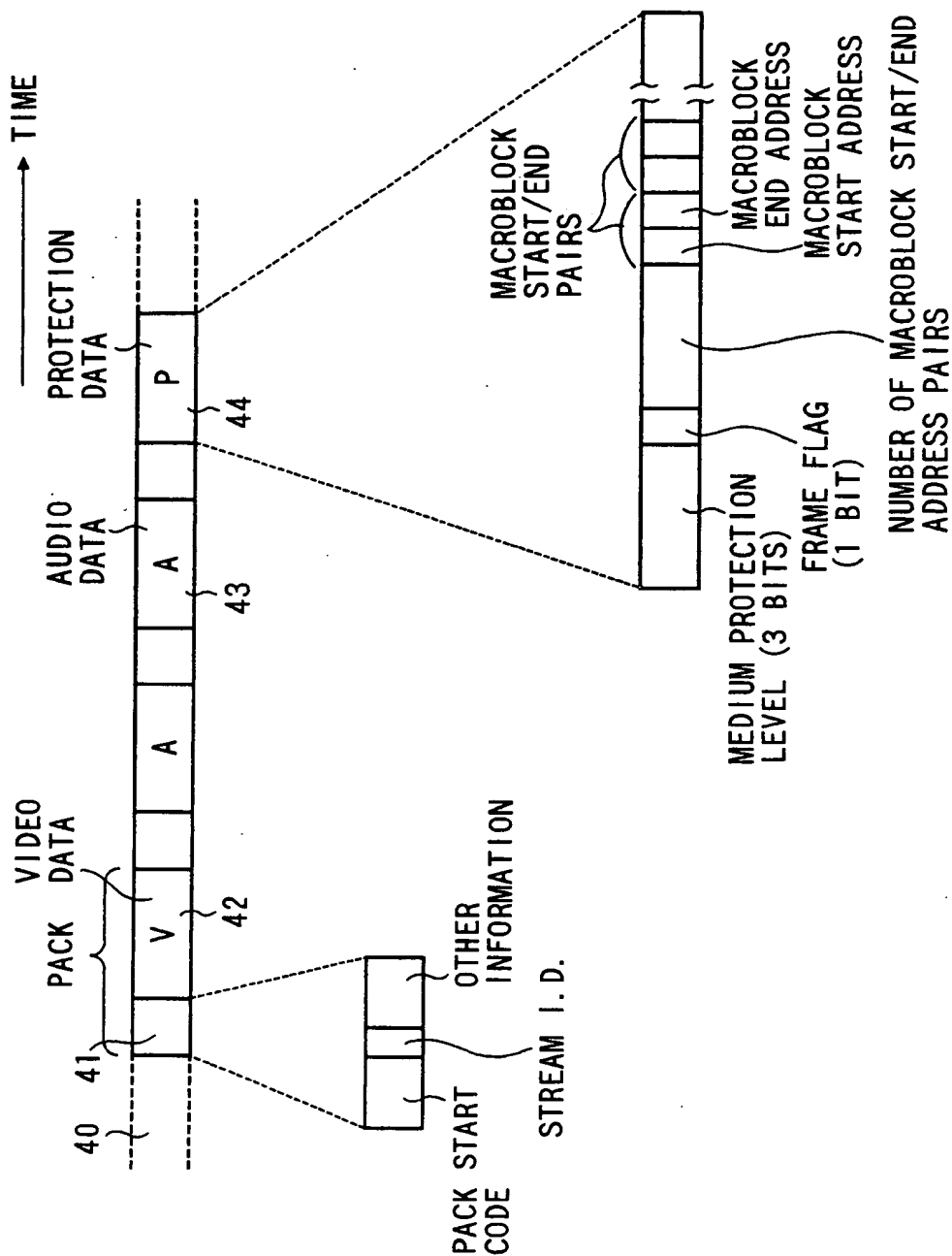


FIG. 10

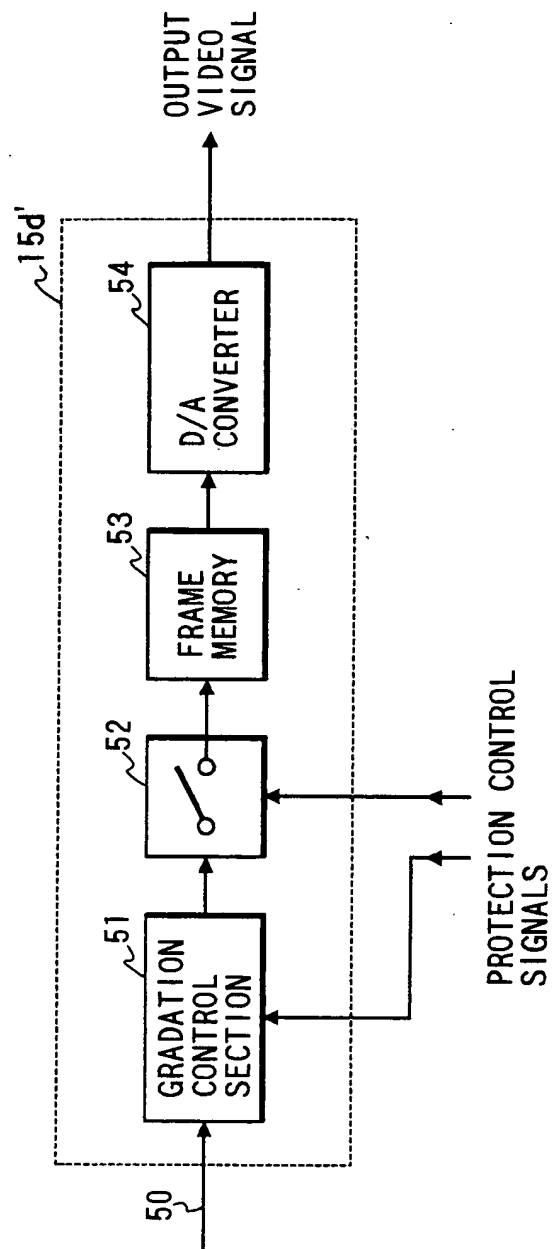


FIG. 11

5

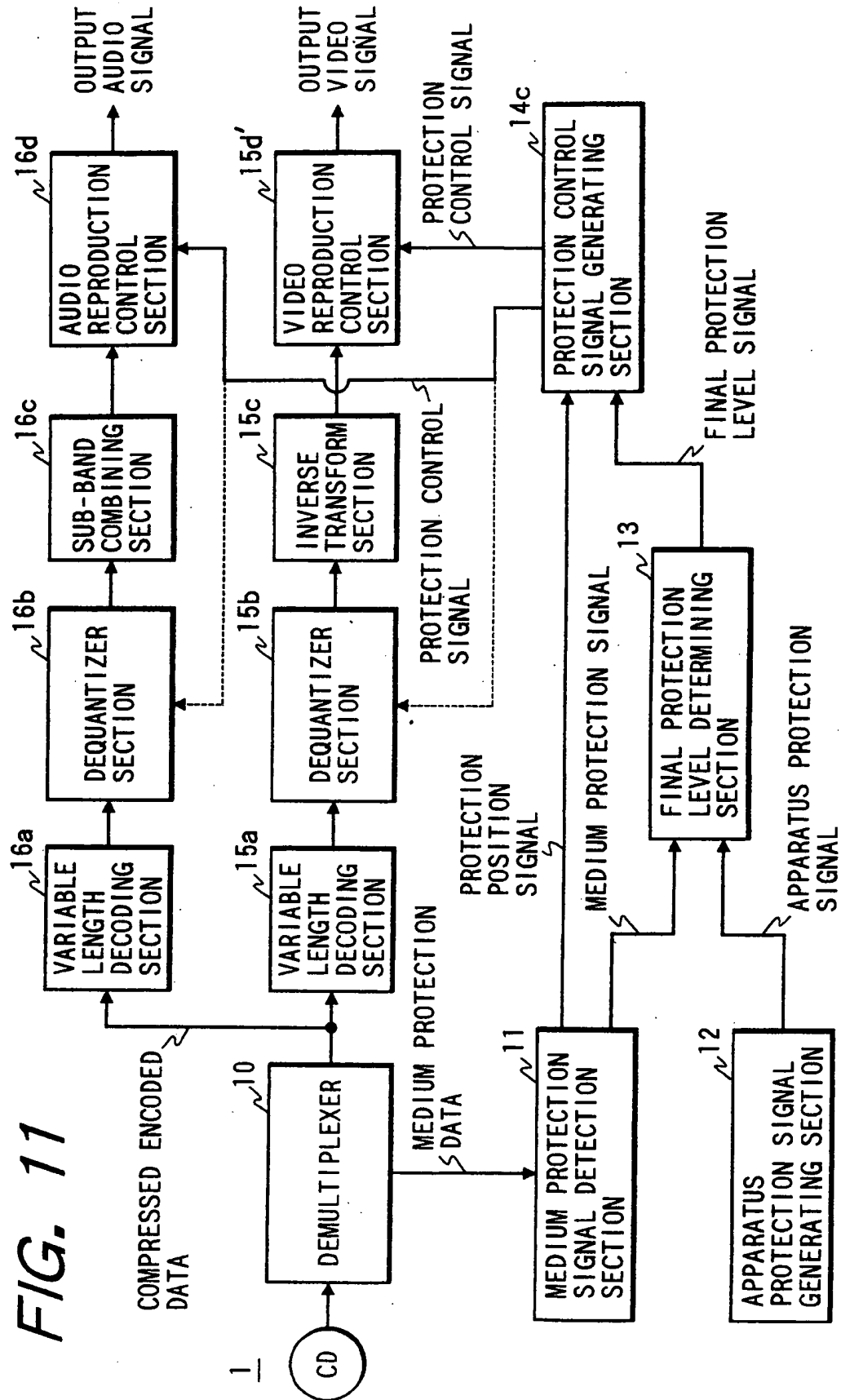


FIG. 12

| | EXAMPLE OF AUDIBILITY GRADES, USING BANDWIDTH-RESTRICTION PROTECTION CONTROL | EXAMPLE OF AUDIBILITY GRADES, USING TIME-AXIS PROTECTION CONTROL | EXAMPLE OF AUDIBILITY GRADES, USING PROTECTION BASED ON AUDIO DATA BIT-NUMBER CONTROL |
|---|--|--|---|
| A | ALL OF ORIGINAL AUDIO SIGNAL REPRODUCED | ALL OF ORIGINAL AUDIO SIGNAL REPRODUCED | ALL OF ORIGINAL AUDIO SIGNAL REPRODUCED |
| B | 18 KHz | 1 IN EVERY 2 SAMPLES IS USED | 12 BITS/SAMPLE |
| C | 12 KHz | 1 IN EVERY 3 SAMPLES IS USED | 8 BITS/SAMPLE |
| D | 6 KHz | ONLY SPECIFIED SAMPLES ARE USED | 4 BITS/SAMPLE |
| E | NO AUDIO OUTPUT SIGNAL | NO AUDIO OUTPUT SIGNAL | NO AUDIO OUTPUT SIGNAL |

→
FINAL PROTECTION LEVEL

FIG. 13

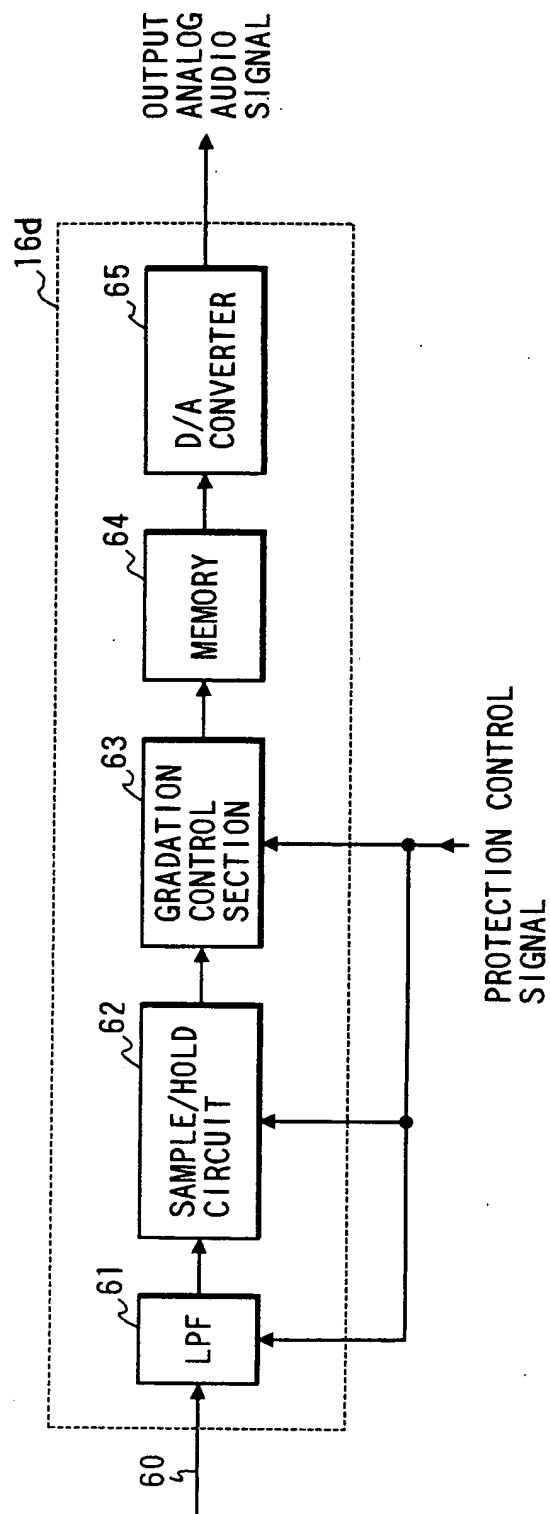


FIG. 14

REPRODUCTION APPARATUS
PROTECTION LEVEL → STRONG

MEDIUM PROTECTION
LEVEL ↓ STRONG

| | 1 | 2 | 3 | 4 |
|---|------------|------------|------------|------------|
| 1 | $A \sim E$ | $A \sim E$ | $A \sim E$ | $A \sim E$ |
| 2 | $A \sim E$ | $A \sim E$ | $A \sim E$ | $B \sim E$ |
| 3 | $A \sim E$ | $A \sim E$ | $B \sim E$ | $C \sim E$ |
| 4 | $A \sim E$ | $B \sim E$ | $C \sim E$ | $D \sim E$ |
| 5 | $E \sim E$ | $E \sim E$ | $E \sim E$ | $E \sim E$ |

FIG. 15

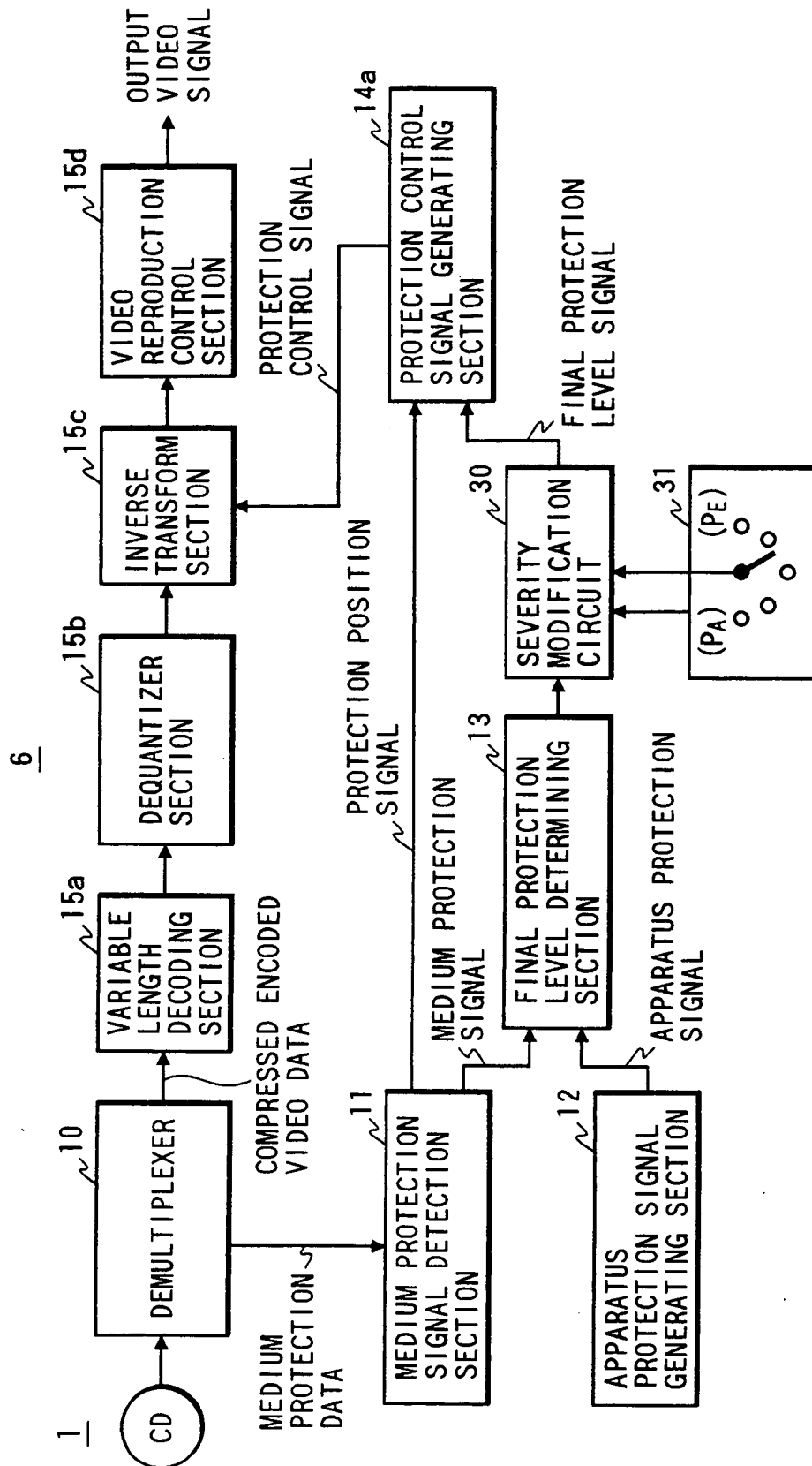


FIG. 16

(WHEN APPARATUS PROTECTION LEVEL=1)

| | MODIFICATION SWITCH CONDITION | | | | |
|---|-------------------------------|----------------|----------------|----------------|----------------|
| | P _A | P _B | P _C | P _D | P _E |
| 1 | A | B | C | D | E |
| 2 | A | B | C | D | E |
| 3 | A | B | C | D | E |
| 4 | A | B | C | D | E |
| 5 | E | E | E | E | E |

MEDIUM PROTECTION LEVEL → STRONG

(A)

(WHEN APPARATUS PROTECTION LEVEL=2)

| | MODIFICATION SWITCH CONDITION | | | | |
|---|-------------------------------|----------------|----------------|----------------|----------------|
| | P _A | P _B | P _C | P _D | P _E |
| 1 | A | B | C | D | E |
| 2 | A | B | C | D | E |
| 3 | A | B | C | D | E |
| 4 | B | B | C | D | E |
| 5 | E | E | E | E | E |

MEDIUM PROTECTION LEVEL → STRONG

(B)

(WHEN APPARATUS PROTECTION LEVEL=3)

| | MODIFICATION SWITCH CONDITION | | | | |
|---|-------------------------------|----------------|----------------|----------------|----------------|
| | P _A | P _B | P _C | P _D | P _E |
| 1 | A | B | C | D | E |
| 2 | A | B | C | D | E |
| 3 | B | B | C | D | E |
| 4 | C | C | C | D | E |
| 5 | E | E | E | E | E |

MEDIUM PROTECTION LEVEL → STRONG

(C)

(WHEN APPARATUS PROTECTION LEVEL=4)

| | MODIFICATION SWITCH CONDITION | | | | |
|---|-------------------------------|----------------|----------------|----------------|----------------|
| | P _A | P _B | P _C | P _D | P _E |
| 1 | A | B | C | D | E |
| 2 | B | B | C | D | E |
| 3 | C | C | C | D | E |
| 4 | D | D | D | D | E |
| 5 | E | E | E | E | E |

MEDIUM PROTECTION LEVEL → STRONG

(D)